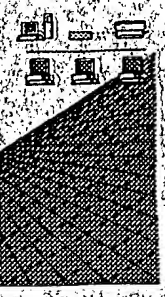


S. Agboh

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



#23  
9-20-01  
PZ

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number 09/484,625  
Source 1711  
Date Processed by STIC: 5-14-01

RECEIVED  
MAY 31 2001  
TC 1700 MAIL ROOM

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY, or  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

RECEIVED  
SEP 10 2001  
TC 1700

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.  
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

**ERROR DETECTED SUGGESTED CORRECTION**

SERIAL NUMBER:

09/484,625

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) ☐ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) ☐. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☐ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☒ Use of "Artificial" (NEW RULES) Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
Valid response is Artificial Sequence.
- 12 ☐ Use of <220>Feature (NEW RULES) Sequence(s) ☐ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1711

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,625<sup>9</sup>

DATE: 05/14/2001

TIME: 11:53:16

Input Set : A:\list5-2-01.ST25.txt

Output Set: N:\CRF3\05142001\I484625.raw

Does Not Comply  
Corrected Diskette Needed  
See p. 5

C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/484,625

10 <141> CURRENT FILING DATE: 2000-01-18

12 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02658

13 <151> PRIOR FILING DATE: 1998-12-08

15 <160> NUMBER OF SEQ ID NOS: 37

17 <170> SOFTWARE: PatentIn version 3.0

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 924

21 <212> TYPE: DNA

22 <213> ORGANISM: Rattus sp.

24 <400> SEQUENCE: 1

25	tgatcatgttg	cggtcttga	accgcctggc	cgcgcgcccc	gggggccagc	ccccaaccct	60
27	gctccttctg	cccggtgcgcg	gccgcaagac	ccgccacgat	ccgcctgcc	agtccaaggt	120
29	cggtgcgcgtg	aaaatgcctc	ctgcagtgg	ccctgcggaa	ttgttcgtgt	tgaccgagcg	180
31	ctaccgacag	taccgggaga	cggtgcgcgc	tctcaggcga	gagttcacat	tgagggtgcg	240
33	agggaaattg	cacgaggccc	gagccggggt	tctggctgag	cgcaaggcgc	aagaggccat	300
35	cagagagcac	caggagctga	tgacctggaa	ccgggaggag	aaccggagac	tcaggaact	360
37	acggatagct	aggttcagc	tcgaagcaca	ggcccaggag	ctgcggcagg	ctgagggtcca	420
39	ggcccagagg	gcccaggagg	agcaggcttg	ggtgcaactg	aaagaacaag	aagttctcaa	480
41	actgcaggag	gaggccaaaa	acttcatcac	tcggggagaac	ctggaggcac	ggatagaaga	540
43	ggccttgga	tctccgaaga	gttataactg	ggcggtcacc	aaagaagggc	aggtggtcag	600
45	gaactgagaa	cagagccctc	tcaggcccaa	ataaggacag	tgcttgccca	gggactggat	660
47	attggggtag	aaattggtgc	atcccaggag	ggtggcacag	ccttgccag	agcagcccc	720
49	attcattcta	gatttggcac	caggtatagt	acctgttctg	acaccacata	caaactccgg	780
51	acagcattaa	actctgggaa	gttcctatca	cacagaagat	cagactggac	tgtcccctct	840
53	agaagccaag	agctgtctcc	tgagtttctt	ggaatagtgt	gagcccaatg	tttctgctt	900
55	ttataaataa	actattggaa	agca				924

58 <210> SEQ ID NO: 2

59 <211> LENGTH: 200

60 <212> TYPE: PRT

61 <213> ORGANISM: Rattus sp.

63 <400> SEQUENCE: 2

65	Met	Leu	Arg	Ala	Leu	Asn	Arg	Leu	Ala	Ala	Arg	Pro	Gly	Gly	Gln	Pro
66	1				5					10					15	
68	Pro	Thr	Leu	Leu	Leu	Leu	Pro	Val	Arg	Gly	Arg	Leu	Thr	Arg	His	Asp
69					20					25				30		
71	Pro	Pro	Ala	Leu	Ser	Leu	Val	Gly	Arg	Val	Leu	Met	Pro	Pro	Ala	Val
72			35					40				45				
74	Asp	Pro	Ala	Glu	Leu	Phe	Val	Leu	Thr	Glu	Arg	Tyr	Arg	Gln	Tyr	Arg
75		50				55				60						
77	Glu	Thr	Val	Arg	Ala	Leu	Arg	Arg	Glu	Phe	Thr	Leu	Glu	Val	Arg	Gly
78	65					70				75					80	
80	Lys	Leu	His	Glu	Ala	Arg	Ala	Gly	Val	Leu	Ala	Glu	Arg	Lys	Ala	Gln
81					85				90					95		

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,625

DATE: 05/14/2001

TIME: 11:53:16

Input Set : A:\list5-2-01.ST25.txt

Output Set: N:\CRF3\05142001\I484625.raw

```

83 Glu Ala Ile Arg Glu His Gln Glu Leu Met Ala Trp Asn Arg Glu Glu
84           100           105           110
86 Asn Arg Arg Leu Gln Glu Leu Arg Ile Ala Arg Leu Gln Leu Glu Ala
87           115           120           125
89 Gln Ala Gln Glu Leu Arg Gln Ala Glu Val Gln Ala Gln Arg Ala Gln
90           130           135           140
92 Glu Glu Gln Ala Trp Val Gln Leu Lys Glu Gln Glu Val Leu Lys Leu
93 145           150           155           160
95 Gln Glu Glu Ala Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
96           165           170           175
98 Ile Glu Glu Ala Leu Asp Ser Pro Lys Ser Tyr Asn Trp Ala Val Thr
99           180           185           190
101 Lys Glu Gly Gln Val Val Arg Asn
102           195           200

```

104 &lt;210&gt; SEQ ID NO: 3

105 &lt;211&gt; LENGTH: 998

106 &lt;212&gt; TYPE: DNA

107 &lt;213&gt; ORGANISM: Rattus sp.

109 &lt;400&gt; SEQUENCE: 3

```

110 atgctacgcg cgctgagccg cctgggcgcg gggaccccg gcaggcccg ggcccctctg 60
112 gtgctgccag cgcgcgccg caagaccgc cagcaccgc tggccaaatc caagatcgag 120
114 cgagtgaaca tgccgcccgc ggtggaccct gcggagttct tcgtgctgat ggagcgttac 180
116 cagcactacc gccagaccgt gcgcgccctc aggatggagt tcgtgtccga ggtgcagagg 240
118 aaggtgcacg aggcccgagc cggggttctg gcggagcgca aggccctgaa ggacgccgcc 300
120 gagcaccgag agctgatggc ctggaaccag gcggagaacc ggcggtgca cgagctgcgg 360
122 atagcgaggc tgcgagcagga ggagcgggag caggagcagc gccaggcgtt ggagcaggcc 420
124 cgcaaggccg aagaggtgca ggcctggcg cagcgcaagg agcgggaagt gctgcagctg 480
126 caggaagagg tgaaaaactt catcaccga gagaacctg aggcacgggt ggaagcagca 540
128 ttggactccc ggaagaacta caactggcc atcaccagag aggggctggt ggtaggcca 600
130 caacgcaggg actcctaggg gccagtaag gacagtcccc gccagggacc atgtatgtat 660
132 catggcgga gagttggccc tgacctgaa taaagcagtt ggtgttgctt atgaggaagg 720
134 ttcagcctta tccagcacag ccttcacgtt ttgccctctg ctgtcaccac ttggtcagaa 780
136 acttccaaac gcagtgcctt gttctgccg tgtgtaaaag ctcagcgcac caggagaccc 840
138 tagagtgtt tccatctcac agagaatcag acaggccaca gcccctcag gcagccagg 900
140 catctgagta tcattaagag tagtgatggg aagattacag tctgagggcc aaacgtgcct 960
142 gcttctctgt tttgtaaata aagttttgtt ggaacaca 998

```

145 &lt;210&gt; SEQ ID NO: 4

146 &lt;211&gt; LENGTH: 205

147 &lt;212&gt; TYPE: PRT

148 &lt;213&gt; ORGANISM: Rattus sp.

150 &lt;400&gt; SEQUENCE: 4

```

152 Met Leu Arg Ala Leu Ser Arg Leu Gly Ala Gly Thr Pro Cys Arg Pro
153 1           5           10           15
155 Arg Ala Pro Leu Val Leu Pro Ala Arg Gly Arg Lys Thr Arg His Asp
156           20           25           30
158 Pro Leu Ala Lys Ser Lys Ile Glu Arg Val Asn Met Pro Pro Ala Val
159           35           40           45
161 Asp Pro Ala Glu Phe Phe Val Leu Met Glu Arg Tyr Gln His Tyr Arg
162           50           55           60

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,625

DATE: 05/14/2001

TIME: 11:53:16

Input Set : A:\list5-2-01.ST25.txt

Output Set: N:\CRF3\05142001\I484625.raw

```

164 Gln Thr Val Arg Ala Leu Arg Met Glu Phe Val Ser Glu Val Gln Arg
165 65 70 75 80
167 Lys Val His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Leu
168 85 90 95
170 Lys Asp Ala Ala Glu His Arg Glu Leu Met Ala Trp Asn Gln Ala Glu
171 100 105 110
173 Asn Arg Arg Leu His Glu Leu Arg Ile Ala Arg Leu Arg Gln Glu Glu
174 115 120 125
176 Arg Glu Gln Glu Gln Arg Gln Ala Leu Glu Gln Ala Arg Lys Ala Glu
177 130 135 140
179 Glu Val Gln Ala Trp Ala Gln Arg Lys Glu Arg Glu Val Leu Gln Leu
180 145 150 155 160
182 Gln Glu Glu Val Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
183 165 170 175
185 Val Glu Ala Ala Leu Asp Ser Arg Lys Asn Tyr Asn Trp Ala Ile Thr
186 180 185 190
188 Arg Glu Gly Leu Val Val Arg Pro Gln Arg Arg Asp Ser
189 195 200 205
191 <210> SEQ ID NO: 5
192 <211> LENGTH: 943
193 <212> TYPE: DNA
194 <213> ORGANISM: Mus musculus
196 <400> SEQUENCE: 5
197 tgtcatgttg cgcgctctga accgcctggc gcagcggcgc ggagaccggc ccccgacccc 60
199 gctgctcctg cccgtgcgcg gccgcaagac ccgccatgac ccgcctgcca aatccaaggt 120
201 cggacgggtg cagacgcctc ccgccgtgga ccctgcggaa ttcttcgtgt tgaccgagcg 180
203 ctacggacag taccgggaga ccgtgcgcgc tctcaggcta gattcacgt tggatgtgcg 240
205 aaggaaattg cagcaggccc gagccggggt tctggccgag cgcaaggcgc agcaggccat 300
207 caccgagcac cgggagctga tggcctggaa ccgggacgag aaccggcgaa tgcaggagct 360
209 acggatagcg aggttgacgc tgggaagcaca ggcccaggag gtgcagaagg ctgaggccca 420
211 ggcgcagagg gctcaggagg agcaggcttg ggtgcaactg aaagagcaag aagtgtcaa 480
213 gctgcaggag gaggcaaaaa acttcatcac tcgggagaac ctggaggcac ggatagaaga 540
215 agcgttgga cttccgaaga gttacaactg ggccgtcacc aaagaagggc aggtggtcag 600
217 gaactgagca cagagacttc tgggggccca aataagcaca gtgcttgcc tgggtctgtg 660
219 tactgggata ggaattggtg catcccagga ggatggctca gccgtttcca gagcaacctc 720
221 agtcactoca ggctcggcac tcaccacctg actgggaact ccagatgtc cctgttctgg 780
223 caccacagtc aaactgaggg cagcattaaa ctctgggaag ttctatcgc acagaggatc 840
225 ggactggact gtgtccctct agaagccaag cttgtcttgt aagtctcttg gagtctctgt 900
227 agccaaatgt ttctgtcttt tataaataaa gtattggagc cca 943
230 <210> SEQ ID NO: 6
231 <211> LENGTH: 200
232 <212> TYPE: PRT
233 <213> ORGANISM: Mus musculus
235 <400> SEQUENCE: 6
237 Met Leu Arg Ala Leu Asn Arg Leu Ala Gln Arg Pro Gly Asp Arg Pro
238 1 5 10 15
240 Pro Thr Pro Leu Leu Pro Val Arg Gly Arg Lys Thr Arg His Asp
241 20 25 30
243 Pro Pro Ala Lys Ser Lys Val Gly Arg Val Gln Thr Pro Pro Ala Val

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,625

DATE: 05/14/2001

TIME: 11:53:17

Input Set : A:\list5-2-01.ST25.txt

Output Set: N:\CRF3\05142001\I484625.raw

```

244          35          40          45
246 Asp Pro Ala Glu Phe Phe Val Leu Thr Glu Arg Tyr Gly Gln Tyr Arg
247          50          55          60
249 Glu Thr Val Arg Ala Leu Arg Leu Glu Phe Thr Leu Asp Val Arg Arg
250 65          70          75          80
252 Lys Leu His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Gln
253          85          90          95
255 Gln Ala Ile Thr Glu His Arg Glu Leu Met Ala Trp Asn Arg Asp Glu
256          100          105          110
258 Asn Arg Arg Met Gln Glu Leu Arg Ile Ala Arg Leu Gln Leu Glu Ala
259          115          120          125
261 Gln Ala Gln Glu Val Gln Lys Ala Glu Ala Gln Arg Gln Arg Ala Gln
262          130          135          140
264 Glu Glu Gln Ala Trp Val Gln Leu Lys Glu Gln Glu Val Leu Lys Leu
265 145          150          155          160
267 Gln Glu Glu Ala Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
268          165          170          175
270 Ile Glu Glu Ala Leu Asp Ser Pro Lys Ser Tyr Asn Trp Ala Val Thr
271          180          185          190
273 Lys Glu Gly Gln Val Val Arg Asn
274          195          200
276 <210> SEQ ID NO: 7
277 <211> LENGTH: 2852
278 <212> TYPE: DNA
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 7
282 tgacctctgt ggatctgata tacatgtaag tgacagacca tccgagctat atagtgagac 60
284 ctgtgcaagg aaggatggag tgcacgttcc ctgatgttca gagcaaccct gtgtcactcc 120
286 aggtaggtga gatgagagga agaggggtggc cttggcctgg gcctcctacg ggcttggaa 180
288 ttgggagaag gatgtaagca gactctgttc tcttctgaga aatatcaggt attgcagtca 240
290 gcccaggctc ctccagacct cctaagtgcg gattctctgc agaattctgg gttgacaaca 300
292 ctaatgagta ggatgagact tcagttccct agccctcacc gtcagcttct gattaccaac 360
294 aactctccca gaggagagcc atctacctt gggacagatg ctctctgccc tgcaactgct 420
296 cctgtttctc ttcatgttag aggaagatag tactttaaaa gcttcataaa tgggtctcaag 480
298 gtgggaagac cccggtctag gtgaaagagg acaagcgtca cctcacacag gccaccag 540
300 agaaaaacaag tgatcactga tactgagaac tctggcaatt gcagagctgc ccaagaccac 600
302 aacagggcag tgcaatgcaa ggaaaagggt tgttgctcga ttgcaaacct aaagttaaaa 660
304 gtgcatcagg agaacgctta ctcaaagagg aagtgtaaag ctaacttaag tagctagaag 720
306 ctcagaattt cttgcatcag ccctggaagg gtacacaggc caccggtggg ccagagaacc 780
308 acacgctttg gggcggtgtc caagcttgtg aacaagtagg caagagcgcc tgggtgttga 840
310 gctgtcattg gcgggcaata cagcccagcg aactgtgggc tccaagggtg ccctcgaccc 900
312 tcccactcta cccgagactc cagggacgag atgggccaga cagcaagagc tccgcctacg 960
314 ggggcgggga caggagattc ccgtgatgct cctcgaccac ttccggacag ggcgcaggcg 1020
316 ctagtgttca tgttgcgggc tttgaaccgc ctggccgcgc ggcccggggg ccagcccca 1080
318 accctgtccc ttctgcccgt gcgcggccca cggcccgcct cattctcggc tcctttttcc 1140
320 tcgcaggata gctaggttgc agctcgaagc acaggcccag gagctgcggc aggttgaggt 1200
322 ccaggcccag agggcccagg aggagcaggc ttgggtgcaa ctgaaagaac aagaagttct 1260
324 caaactgcag gtgggcggag gtcgtgagga atgtgggtat tggagattcc ggtgaggagg 1320
326 gctctgggga gagcagcaca ggtgttcaag tgaccagtct tcaggaggct tctctctctg 1380

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,625

DATE: 05/14/2001

TIME: 11:53:17

Input Set : A:\list5-2-01.ST25.txt

Output Set : N:\CRF3\05142001\I484625.raw

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328 ctctgcacac acagagtgcc tcccagacaa tggtaaatga aagggttacag gctagtattg 1440
330 ccgtgtgaaa cttgaaggtc agggaaacca taaatgagaa tggagctgtt tttattgtgt 1500
332 aaggagagagt gacaaggttg agagagtcca ccaccccgca cctcccccg cccccaatca 1560
334 ggttgtcacg attcgattcg ttcttggtt gtggtgaga gatctgatgg gtaattgtcc 1620
336 gaggaagagg gatataatgg ttgaggtcac ctagtacagt tgtgctggcc tattggtggg 1680
338 aacctcaaaag gggccctggg ctcttttgac acccttctta aggtgggcta gagacagtaa 1740
340 gttatgcagg cagccagctc tgagagatcc cactagcta acctttctct tcccgttaga 1800
342 ggaggccaaa aacttcatca ctcgaggaga cctggaggca cggatagaag aggccttgga 1860
344 ctctccgaag agttataact gggcggtcac caaagaaggg cagggtgtca ggaactgaga 1920
346 acagagggcct ctcaggccca aataaggaca gtgcttgctt agggactgga tattggggta 1980
348 gaaattgggt catcccagga ggggtggaca gccttgcca gagcagcccc cattcattct 2040
350 agatttggca ccaggtagg tacctgttct gacaccacat acaaactccg gacagcatta 2100
352 aactctggga agttcctatc acacagaaga tcagactgga ctgtccctc tagaagccaa 2160
354 gagctgtctc ctgagtttct tggaatagtg tgagcccaat gtttctgtct tttataaata 2220
356 aactattgga aagcaaagcc ttttgttatg tggcttgtct tttctgtgtg tagaataagt 2280
358 ttatttgtcc cagttatttg ggtcttaagg ttattagcca aaagccagtt cacctaactg 2340
360 agccaggagt tagttatctg ctttgcctaa tcctgggctt tgctgggtag ggtcaggtgt 2400
362 gtccaagggt cagaaagcaa aaagggtgcc ccgtttctcc tgggaaggct tccccgtcag 2460
364 tgatttctgt aaccggaccc tgccctgaca cagcgtcatt ggactacca gcagacagta 2520
366 gactccactc taaacccgct tcttgcggtc agttgtgtc cttcagtggt tgtaagcagt 2580
368 ggccagacag cacccttggg tgtcatttca agactctctc accttgggtc gctttacgtt 2640
370 tggtttgatt tggtttgttc tggtttttga gacgaggcct ttactggaa cctggcactc 2700
372 agtattttaga ctgccagacc agctagcctc agagaatgca tctgcgtatg cttgcctggc 2760
374 gctggaattc ggtgcacatg gctttgatgt gtaccgggga tcagacacag atgtttcatg 2820
376 agtgcagtgc atgcctgtta gtggtagagc tc 2852

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379 &lt;210&gt; SEQ ID NO: 8

380 &lt;211&gt; LENGTH: 41

381 &lt;212&gt; TYPE: PRT

382 &lt;213&gt; ORGANISM: Homo sapiens

384 &lt;400&gt; SEQUENCE: 8

386 Met Leu Arg Ala Leu Asn Arg Leu Ala Ala Arg Pro Gly Gly Gln Pro

387 1 5 10 15

389 Pro Thr Leu Leu Leu Leu Pro Val Arg Gly Pro Arg Pro Arg Ser Phe

390 20 25 30

392 Ser Ala Pro Phe Ser Ser Gln Asp Ser

393 35 40

395 &lt;210&gt; SEQ ID NO: 9

396 &lt;211&gt; LENGTH: 20

397 &lt;212&gt; TYPE: DNA

c--&gt; 398 &lt;213&gt; ORGANISM: Artificial

400 &lt;220&gt; FEATURE:

401 &lt;223&gt; OTHER INFORMATION: SYNTHETIC PRIMER

403 &lt;220&gt; FEATURE:

404 &lt;221&gt; NAME/KEY: misc\_feature

405 &lt;222&gt; LOCATION: (1)..(20)

406 &lt;223&gt; OTHER INFORMATION: SYNTHETIC PRIMER

409 &lt;400&gt; SEQUENCE: 9

410 ttcacaccac tctgtcgaac

413 &lt;210&gt; SEQ ID NO: 10

*Incomplete <213> response as per section 1.823b of the new sequence rules. See #11 on the Error Summary Sheet.*

20

Please

Note: →

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/484,625

DATE: 05/14/2001

TIME: 11:53:18

Input Set : A:\list5-2-01.ST25.txt

Output Set: N:\CRF3\05142001\I484625.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:398 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:416 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:434 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:452 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:470 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:488 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:506 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:641 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:2143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:2161 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:2179 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:2197 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
L:2215 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22  
L:2233 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23  
L:2251 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24  
L:2269 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25  
L:2287 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26  
L:2305 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27  
L:2323 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28  
L:2341 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29  
L:2460 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36